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DEPARTMENT OF THE AIR FORCE

STAFF MESSAGE BRANCH ,

AF IN: 23784 (14 Nov 63)

INCOMING MESSAGE

pg 1 of 3

PE/tro

ACTION: JCS/DIA(CIIC)-2, DIA-25, XPD-3

INFO : JCS/J3-2, NMCC-2, RRA-1, JRG-2, JCS/FTEE-2 (11) CMC-8, OSD-15, XOP-1, XOPX-4, XDC-1, NIN-1, ODC-1, SMB-1 (72)

ZCHQA961ZCJJG859

OO RUEAHQ

ZFD RUWGALB

OO RUEAHQ RUEKC KEKVDA RUEKMJ RUEPDA RUEHC RUECW RUEPIA

DE RUWGALB 19D 13/2337Z

0 132316Z ZEX

FM CINCNORAD

TO RUEAHQ/JCS JRC

RUEKC/ANMCC

RUEKVDA/ NECPA

RUEXMJ/NEACP

RUE AHQ/DIA

RUE PD A/DA

RUEHC/DEPT OF STATE

PUEAHQ/CSAF

JEAHQ/DIRNSA ///PROTECTED///

RUECW/CNO

RUKDAG/CINCAL

RUCSER/ CINCSAC

RUL PC/USCINCSO

RUFLC/USCINCEUR

RUHPA/ CINCPAC

RUCKHC/CINCLANT

THE COLOR OF THE TR

RUCDSQ/AFSC FTD TD ARM FTD WPAFB OHIO

RUDLAU/CINCUSNAVEUR

RUECW/ ON I

37

RUEPIA/CIA

SECRET FROM NITA-S X-660

Declassification IAW

EO 13526

by the Air Force Declessification Office

SIAFIN

Date: 11-2-11 Reviewer# 72

DA PASS TO ACSI/DA. CSAF FOR AFNIE. DIRNSA FOR A41.

CIA. ATTN: OSI/BMSD. DEPT OF STATE FOR HOWARD WIEDMAN,

INR. DIA FOR DIAAP-3A3, ATTN: R.A. BAUMLER AND DIAAP-

1F1. ATTN: R.E. SCHMALTZ, ONI FOR OP922Y. THIS IS

NORAD FRAGMENTARY REPORT NUMBER 130-63. REFERENCE

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DEPARTMENT OF THE AIR FORCE STAFF MESSAGE BRANCH INCOMING MESSAGE

pg 2 of 3

AF IN: 23784 (14 Nov 63) SICR #D-ACQ-03796. STATUS OF SPUTNIK 46, 1963-44A AND B, SPADATS OBJECTS NUMBER 687 AND 688. COSMOS 21 LAUNCHED FROM THE TYURATAM MISSILE TEST RANGE AT 0624Z ON 11 NOV (SPADATS DERIVED LAUNCH TIME). SPADATS OBJECT 688, IDENTIFIED AS THE INJECTION STAGE ROCKET BODY OF THIS LAUNCH, DECAYED BETWEEN 2210Z AND 2400Z ON 12 NOVEMBER 63. GOOD QUALITY RADAR SIGNATURE DATA WERE OBTAINED ON THIS OBJECT, THESE DATA INDICATE THAT OBJECT 688 MEASURED APPROXIMATELY 30 FEET IN LENGTH. IT WAS MADE UP OF THREE SECTIONS: A CYLINDER APPROXIMATELY 23 FEET LONG AND SEVEN FEET IN DIAMETER; A TRUNCATED 3 1/2 FOOT LONG TAPERED SECTION, TAPERING IN DIAMETER FROM SEVEN FEET TO 5 1/2 FEET; AND A FLARED SECTION. ON THE OPPOSITE END OF THE CYLINDER. MEASURING 3.3 FEET IN LENGTH. THIS ROCKET BODY TUMBLED WITH ITS TUMBLE RATE GRADUALLY INCREASING FROM 3.3 RPM ON REVOLUTION 5 TO 4.5 RPM AT TIME OF DECAY. SPADATS OBJECT 687, IDENTIFIED AS THE PAYLOAD, IS STILL IN ORBIT AS OF THIS WRITING (REVOLUTION 41 AT 1900Z ON 13 NOVEMBER). SPADATS ORBITAL PARAMETERS FOR OBJECT 687 AS OF REVOLUTION

36 WERE AS FOLLOWS:

INCLINATION: 64.76 DEGREES

NODAL PERIOD:

88.10 MINUTES

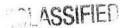
EO 13526 by the Air Force Declassification Office Date: 11-7-11 Reviewer# 137

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DEPARTMENT OF THE AIR FORCE STAFF MESSAGE BRANCH INCOMING MESSAGE

AF IN: 23784 (14 Nov 63)

pg 3 of 3

APOGEE:

187.55 KILOMETERS (101.27 NAUTICAL MILES)

PERIGEE:

170.9 KILOMETERS 106.2 NAUTICAL MILES)

RADAR SIGNATURE DATA INDICATES THAT OBJECT 687 POSSESSES A CUMBER OF IRREGULARITIES IN SHAPE AND STRUCTURE. IT APPERAS TO CARRY AT LEAST THREE ANTENNAE, AND PROBABLY HAS SURFACE DISCONTINUITIES AS WELL. ITS GENERAL CONFIGURATION APPEARS TO BE DRUM-SHAPED; IT IS ESTIMATED TO MEASURE ABOUT FOUR FEET IN DIAMETER AND FIVE FEET IN HEIGHT. DUE TO THE PROTRUSIONS AND SURFACE IRREGULARITIES, THE RADAR SIGNATURESNOHINTERCEPTED FROM THE

PAYLOAD SINCE THE ZERO REVOLUTION, WHICH SUGGESTS THAT
THE PAYLOAD MAY NOT BE FUNCTIONING AS PLANNED. IN SUCH
A CASE THE SOVIETS MAY BE UNABLE TO RECOVER IT. BASED ON
THE ORBITAL PARAMETERS, IT IS ESTIMATED THAT THIS VEHICLE
WILL DECAY NATURALLY WITHIN THE NEXT FEW DAYS. GP-1

BT

NOTE: ADV CY DEL TO DIA, NIN AND JCS. CORRECTED COPY OF AFIN 22976 (14 Nov 63).

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EXCLUSIVE TABLE AND THE MADE ADDRESS OF THE MADE APPLY

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